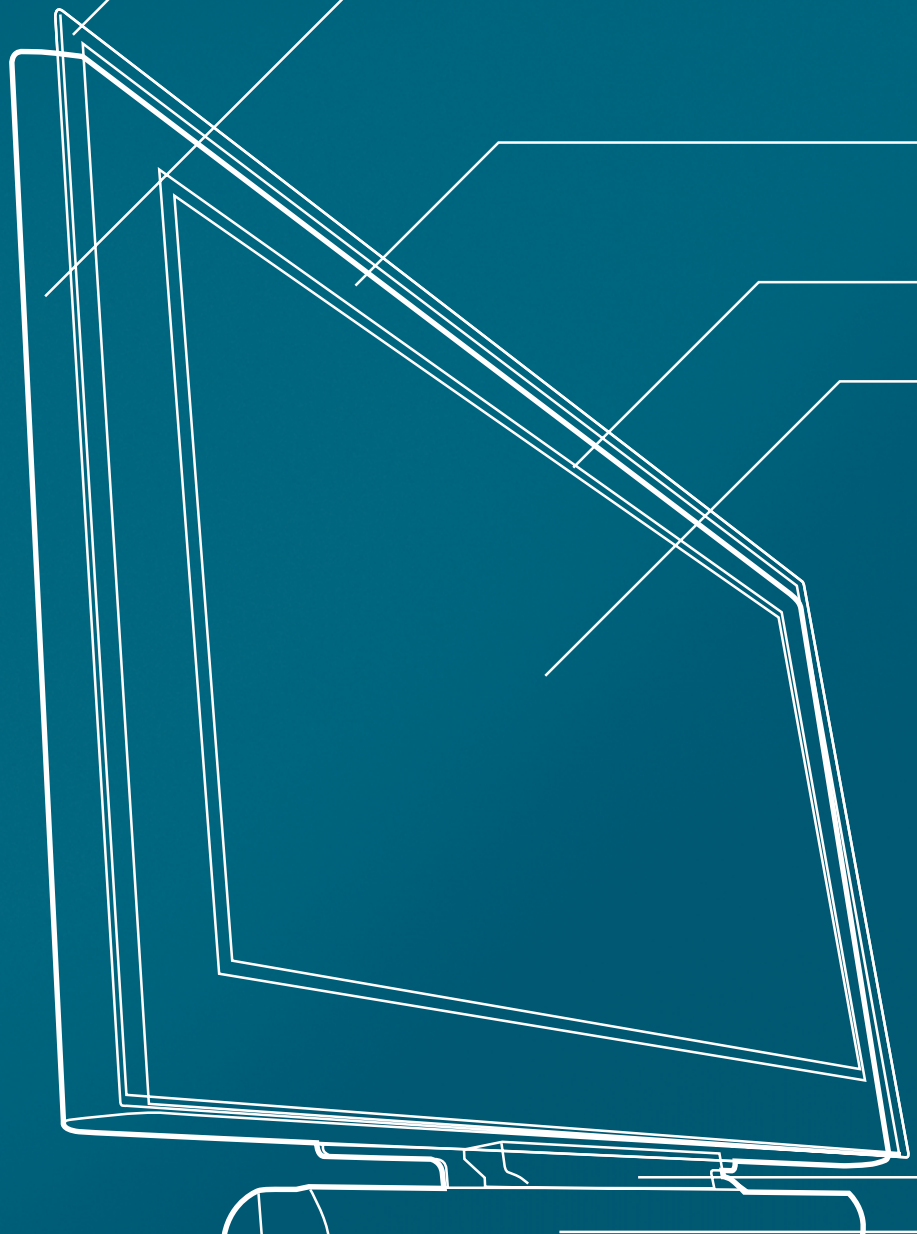
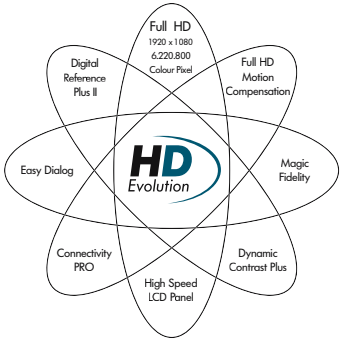
GRUNDIG
made for you

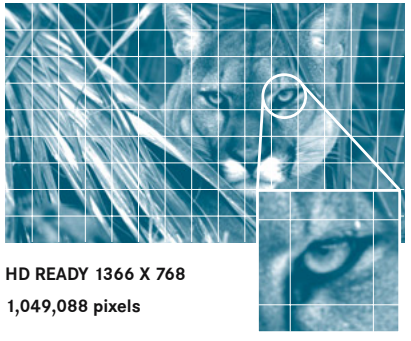
VISION | TECHNICAL DATA



THE TECHNOLOGY **OF BRILLIANT PICTURES**

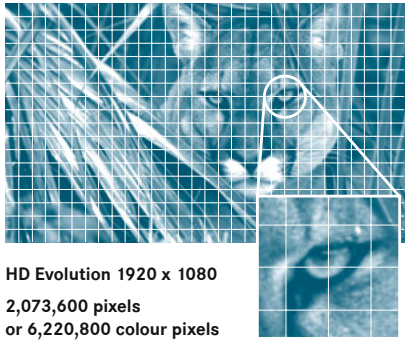


HIGH-END TV
MADE BY GRUNDIG



HD READY 1366 X 768

1,049,088 pixels



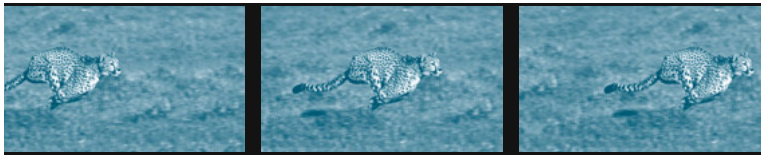
HD Evolution 1920 x 1080

2,073,600 pixels
or 6,220,800 colour pixels

ORIGINAL FILM

Original picture 1 **Original picture 2**

TV WITH HD EVOLUTION



Original picture 1 **Interpolated picture** **Original picture 2**

FULL HD 1920 x 1080 PIXELS

The greater the number of pixels, the sharper and more detailed the picture resolution. The 1920 x 1080 pixels provide HD Evolution with the highest picture resolution and the most natural picture reproduction. The pictures are extremely detailed and stunningly real due to the great depth effect.

FULL HD WITH MOTION COMPENSATION BY GRUNDIG

The new TV generation with visibly sharper pictures which are jerk-free, at last. Grundig television sets with Motion Compensation always provide excellent reproduction. Now we can introduce this picture improving technology for full HD television images as well. The newest high-speed processing chip set calculates additional intermediate pictures on scanned films and integrates them into the motion phases in question. This ensures a natural flow of movements and outstanding picture quality for fast-moving scenes.

The device calculates an additional picture for every two pictures and inserts it between them, thereby smoothing the motion display. In practice, this means that standard LCD TVs build two pictures - and Motion Compensation calculates an additional picture. This means that the TV picture becomes smoother for the eye and visibly gains motion detail, resulting in improved picture sharpness and fewer “jerks”.

Traditional PAL contrast

HD Evolution - optimal contrast

MAGIC FIDELITY BY GRUNDIG

THE PATENTED SOUND SYSTEM FOR GREAT AUDIO

This loudspeaker concept patented for Grundig lets you enjoy a large sound experience even with small casing volumes, which is a great advantage for flat TVs in particular. The technological basis for this is formed by three amplifier output stages within the device, which are adapted to their speakers in the medium-treble range and to the subwoofer. On the basis of this design, 40 watts of audio power are sufficient to create an outstanding sound.

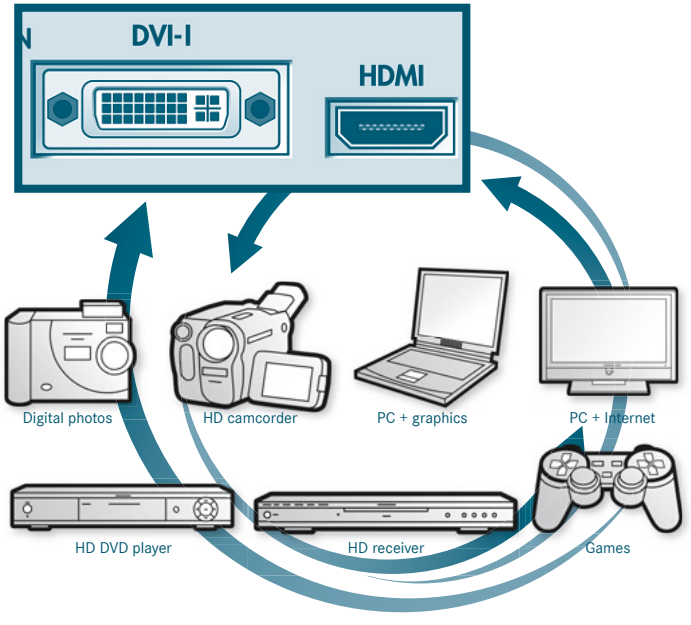
DYNAMIC CONTRAST PLUS

THE BEST PICTURES FROM LIGHT TO DARK

The picture contrast shows the relationship between the brightest and darkest picture display. Our new dynamic contrast optimisation ensures that the screen always guarantees the best possible contrast for the picture content. And this means optimally adjusted depth of focus.

HIGH SPEED PANEL

In modern, high-resolution TVs, the use of the latest generation of panels is an important requirement for achieving optimal picture quality. Liquid Crystal Displays (LCDs) of the latest design are distinguished by their high reaction speed, also known as afterglow duration. In the HD Evolution LCD TV by Grundig, the Full HD panel with an afterglow duration of less than 8 ms is of the very highest class. This is achieved by a new technique known as “overdrive”. The Grundig engineers have attained the optimal relationship between the high-speed chip already mentioned and this high-speed panel – resulting in the most natural TV pictures ever achieved.



CONNECTIVITY PRO BY GRUNDIG

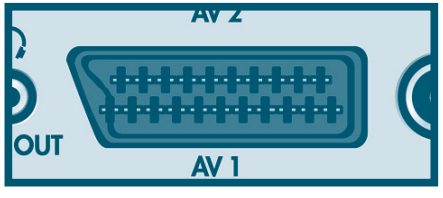
MULTI-FUNCTIONAL WITH INTELLIGENT CONNECTION CONCEPT

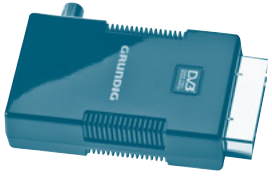
Grundig's Connectivity Pro stands for the numerous connection options which have brought the Grundig HD Evolution LCD TV to the centre of consumer electronics. Be it a games console, a HD receiver, a DVD player and recorder, a computer, a digital camera or digital storage media: optimal connections are available for every peripheral device. For example, the digital home entertainment connection of the future – HDMI (High Definition Multimedia Interface).
A HDMI cable transmits all the signals for digital pictures, digital surround sound and digital appliance control. The DVI interface provided, which can be used as a second HDMI input by means of an adapter, is used to connect a PC or a notebook directly. Thus, the Grundig HD Evolution LCD TV, with a resolution in excess of 2 million pixels, can also be used for professional presentations.

2x HDMI OR 2x DVI

HIGH DEFINITION MULTIMEDIA INTERFACE

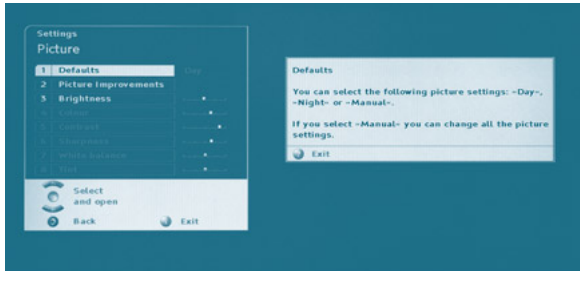
HDMI (High Definition Multimedia Interface) and DVI (Digital Video Interface) are interfaces for transferring video and audio data. Complete digital transmission via HDMI or DVI means you gain significant improvements in the picture quality compared to a SCART cable connection. The digital picture connection must have the state-of-the-art HDCP copy protection system. DIGI 200 LCD TVs by Grundig come with an HDMI/DVI adapter cable which can be used with 2 x HDMI or 2 x DVI.

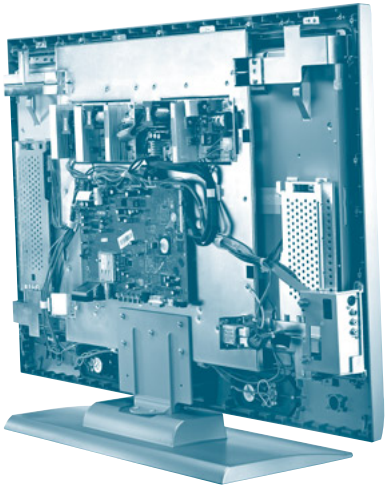


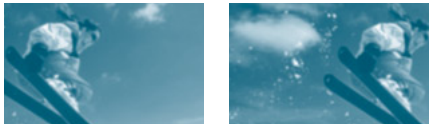


GRUNDIG DVB MICRO RECEIVER

Just plug it into the SCART socket of a Grundig LCD TV with DIGI200 chassis, and the DVB micro receiver becomes a genuine IDTV television. The micro receiver is directly controlled by the DIGI200 chassis with a special data bus line. Installation is easy and done in a matter of seconds via the Easy Dialog menu. You can operate it using the remote control of the LCD TV, so a second remote control and changing operating levels is no longer necessary. Power is also supplied by the TV. A DVB-S, a DVB-T and, shortly, a DVB-C variation of the mini receiver are available.







Television station broadcast: 50 pictures per second.

The 100 hertz technology calculates an additional picture and inserts it between the two original pictures. This results in outstanding pictures and completely fluent movements for sport scenes and ticker text, for example.

EASY DIALOG BY GRUNDIG
TOP MARKS FOR EXCELLENT EASE OF USE

The Grundig Easy Dialog user menu, self-explanatory and much praised in product tests, is a clear, fast, easily operated on-screen dialog system. It provides you with an integrated electronic operating manual that enables you to easily enter your own settings.

DIGITAL REFERENCE PLUS II BY GRUNDIG FOR PERFECT VIEWING

Digital Reference Plus II is the latest high-speed chip technology to use the parameters optimised by Grundig engineers for natural TV pictures. Incoming HDTV signals are optimised so that every single pixel is processed. At the same time, any picture errors are detected and immediately corrected. This innovative picture improvement technique results in perfect picture quality, with brilliant colours to the smallest level of detail.

100 Hz TECHNOLOGY IN LCD TVs

The 100 Hz technology doubles the number of pictures per second from 50 to 100. With good reason: television stations only broadcast 50 pictures per second. In the case of very fast movements (sport scenes, ticker text), the pictures jump from one movement sequence to the next every 20 milliseconds, without transition. This jump is perceived as blurring. To prevent this, the 100-hertz LCD TV calculates an additional picture and inserts it between the two original pictures. This means that each picture is only shown for ten milliseconds. The result is outstanding pictures without blurring and completely fluent movements at all times.

LCD TELEVISION SETS	FINE ARTS 42 LXW 110-9650 FHD	LENARO 42 LXW 110-8740 FHD	FINE ARTS 37 LXW 94-9650 FHD	THARUS 37 LXW 94-9745 FHD	LENARO 37 LXW 94-8740 FHD
Catalogue page	6	10	7	7	10
PICTURE					
Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display
Screen diagonal inches	42	42	37	37	37
16:9 wide-screen format	•	•	•	•	•
Response time approx. ms	5	5	8	8	8
Brightness approx. cd/m²	500	500	500	500	500
Contrast ratio approx.	5,000 : 1 (Dynamic Contrast Plus)	5,000 : 1 (Dynamic Contrast Plus)	5,000 : 1 (Dynamic Contrast Plus)	5,000 : 1 (Dynamic Contrast Plus)	5,000 : 1 (Dynamic Contrast Plus)
Viewing angle approx.	viewing angle free	viewing angle free	viewing angle free	viewing angle free	viewing angle free
Resolution RGB pixel	WUXGA 1920 x 1080 (full HD)	WUXGA 1920 x 1080 (full HD)	WUXGA 1920 x 1080 (full HD)	WUXGA 1920 x 1080 (full HD)	WUXGA 1920 x 1080 (full HD)
100 Hz technology	–	–	–	–	–
Digital Reference Plus II technology	•	•	•	•	•
Motion Compensation	•	•	•	•	•
10-bit technology	•	•	•	•	•
Perfect Clear	•	•	•	•	•
HD ready	•	•	•	•	•
Increased colour contrast (DCTI)	•	•	•	•	•
Picture definition storable / comb filter	• / • (3-D)	• / • (3-D)	• / • (3-D)	• / • (3-D)	• / • (3-D)
INTEGRATED DVB-T RECEIVER					
Digital TV reception via house- or room antenna	integrable via G-bus interface	integrable via G-bus interface	integrable via G-bus interface	integrable via G-bus interface	integrable via G-bus interface
ELECTRONICS					
Easy Dialog / intelligent user concept	• / •	• / •	• / •	• / •	• / •
Automatic tuning system	•	•	•	•	•
Picture-in-picture	1-tuner AV-PIP	1-tuner AV-PIP	1-tuner AV-PIP	1-tuner AV-PIP	1-tuner AV-PIP
PAP – splitted screen (picture / picture)	–	–	–	–	–
PAT – splitted screen (picture / text)	•	•	•	•	•
Programme memory TV / AV	99 / 7	99 / 7	99 / 7	99 / 7	99 / 7
Videotext / memory	• (level 2.5) / 2,000	• (level 2.5) / 2,000	• (level 2.5) / 2,000	• (level 2.5) / 2,000	• (level 2.5) / 2,000
TV standards	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM
	via AV: NTSC 4,43 + 3,58 MHz.	via AV: NTSC 4,43 + 3,58 MHz.	via AV: NTSC 4,43 + 3,58 MHz.	via AV: NTSC 4,43 + 3,58 MHz.	via AV: NTSC 4,43 + 3,58 MHz.
	A2 for B/G/D/K/I, Nicam 5,85 MHz	A2 for B/G/D/K/I, Nicam 5,85 MHz	A2 for B/G/D/K/I, Nicam 5,85 MHz	A2 for B/G/D/K/I, Nicam 5,85 MHz	A2 for B/G/D/K/I, Nicam 5,85 MHz
	(BG, L) + 6,52 MHz (I)	(BG, L) + 6,52 MHz (I)	(BG, L) + 6,52 MHz (I)	(BG, L) + 6,52 MHz (I)	(BG, L) + 6,52 MHz (I)
Control keys on set	–	•	–	–	•
Infrared remote control	Personal Remote 100	Tele-Pilot® 170 C	Personal Remote 100	Tele-Pilot® 170 C	Tele-Pilot® 170 C
SOUND					
Music / nominal output approx. W	3-channel 40 / 24	3-channel 40 / 24	3-channel 40 / 24	3-channel 40 / 24	3-channel 40 / 24
Magic Fidelity / Virtual Dolby Surround	• / •	• / •	• / •	• / •	• / •
Headphones volume separately adjustable	•	•	•	•	•
Headphones tone channel selection for 2-tone reception	•	•	•	•	•
Loudspeakers	2 high-middle + 2 bass	2 high-middle + 2 bass	2 high-middle + 1 bass	2 high-middle + 1 bass	2 high-middle + 1 bass
CONNECTIONS / SOCKETS					
HDMI	2x (1x via DVI-HDMI adaptor)	2x (1x via DVI-HDMI adaptor)	2x (1x via DVI-HDMI adaptor)	2x (1x via DVI-HDMI adaptor)	2x (1x via DVI-HDMI adaptor)
DVI	2x (1x via DVI-HDMI adaptor)	2x (1x via DVI-HDMI adaptor)	2x (1x via DVI-HDMI adaptor)	2x (1x via DVI-HDMI adaptor)	2x (1x via DVI-HDMI adaptor)
HDCP	• (via HDMI / DVI)	• (via HDMI / DVI)	• (via HDMI / DVI)	• (via HDMI / DVI)	• (via HDMI / DVI)
Euro-AV socket / RGB and S-video suitable	2x / 2x RGB	2x / 2x RGB	2x / 2x RGB	2x / 2x RGB	2x / 2x RGB
YUV sockets	• (3x Cinch video, 2x Cinch audio)	• (3x Cinch video, 2x Cinch audio)	• • (3x Cinch video, 2x Cinch audio)	• (3x Cinch video, 2x Cinch audio)	• (3x Cinch video, 2x Cinch audio)
S-video input (hosiden)	•	• (lateral)	•	•	• (lateral)
Cinch-AV sockets	•	• (lateral)	•	•	• (lateral)
VGA interface for PC	• (Multisync WXGA via DVI-I)	• (Multisync WXGA via DVI-I)	• (Multisync WXGA via DVI-I)	• (Multisync WXGA via DVI-I)	• (Multisync WXGA via DVI-I)
SPDIF out	• (optical)	• (optical)	• (optical)	• (optical)	• (optical)
Headphones socket (Ø 3.5 mm)	•	•	•	•	•
Common interface (CA modules)	–	–	–	–	–
MAINS UNIT					
Voltage (regulated), frequency 50/60 Hz V~	230	230	230	230	230
Integrated supply	•	•	•	•	•
Power consumption max. / stand-by approx. W	230 / < 2	230 / < 2	171 / < 2	171 / < 2	167 / < 2
Weight approx. kg	41	34.1	32.8	32.8	29
Dimensions (W x H x D) approx. cm	111.5 x 81.1 x 12.5 (30.5 with pedestal)	108.2 x 80.7 x 12.3 (33 with pedestal)	98.5 x 73.3 x 11.3 (30 with pedestal)	98.5 x 73.3 x 11.3 (30 with pedestal)	96.3 x 70.7 x 14 (33 with pedestal)

Technical data supplied without liability.

LCD TELEVISION SETS	LENARO 37 LXW 94-9710 Dolby	LENARO 37 LXW 94-7731 IDTV	VIVANCE 37 LXW 94-6710 REF	VISION+ 32 LXW 82-9740 Dolby	LENARO 32 LXW 82-7732 DVB-T
Catalogue page	11	13	16	8	12
PICTURE					
Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display
Screen diagonal inches	37	37	37	32	32
16:9 wide-screen format	•	•	•	•	•
Response time approx. ms	8	5	8	8	8
Brightness approx. cd/m²	500	500	500	500	500
Contrast ratio approx.	7,000 : 1 (Dynamic Contrast Plus)	1,000 : 1	1,000 : 1	5,000 : 1 (Dynamic Contrast Plus)	1,200 : 1
Viewing angle approx.	viewing angle free	178° vertical, 178° horizontal	178° vertical, 178° horizontal	viewing angle free	178° vertical, 178° horizontal
Resolution RGB pixel	WXGA 1366 x 768	WXGA 1366 x 768	WXGA 1366 x 768	WXGA 1366 x 768	WXGA 1366 x 768
100 Hz technology	•	–	–	–	–
Digital Reference Plus II technology	•	–	–	•	–
Motion Compensation	•	–	–	•	–
10-bit technology	•	–	–	•	–
Perfect Clear	•	–	–	•	–
HD ready	•	•	•	•	•
Increased colour contrast (DCTI)	•	•	•	•	•
Picture definition storable / comb filter	• / • (3-D)	• / • (3-D)	• / •	• / • (3-D)	• / •
INTEGRATED DVB-T RECEIVER					
Digital TV reception via house- or room antenna	integrable via G-bus interface	•	–	integrable via G-bus interface	•
ELECTRONICS					
Easy Dialog / intelligent user concept	• / •	– / •	– / •	• / •	– / •
Automatic tuning system	•	•	•	•	•
Picture-in-picture	1-tuner AV-PIP	2-tuner PIP	1-tuner PIP	1-tuner AV-PIP	–
PAP – splitted screen (picture / picture)	–	•	–	–	
PAT – splitted screen (picture / text)	•	•	•	•	•
Programme memory TV / AV	99 / 7	100 (899 DVB-T) / 8	100 / 7	99 / 7	100 (899 DVB-T) / 8
Videotext / memory	• (level 2.5) / 2,000	• / 800	• / 250	• (level 2.5) / 2,000	• / 10
TV standards	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM,	BG, I, DK/K', L/L'. PAL, SECAM
	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.
	A2 for B/G/D/K/I, Nicam 5.85 MHz	A2 for B/G/D/K/I, Nicam 5.85 MHz	A2 for B/G/D/K/I, Nicam 5.85 MHz	A2 for B/G/D/K, Nicam 5.85 MHz	A2 for B/G/D/K/I, Nicam 5.85 MHz
	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)
Control keys on set	•	•	•	–	•
Infrared remote control	Tele-Pilot® 170 C	Tele-Pilot® 170 C	Tele-Pilot® 170 C	Tele-Pilot® 170 C	Tele-Pilot® 170 C
SOUND					
Music / nominal output approx. W	3-channel 40 / 24	2-channel 20 / 10	2-channel 20 / 10	3-channel 40 / 22	2-channel 20 / 10
Magic Fidelity / Virtual Dolby Surround	• / •	– / •	–	• / •	–
Headphones volume separately adjustable	•	•	•	•	•
Headphones tone channel selection	•	•	•	•	•
for 2-tone reception					
Loudspeakers	2 high-middle + 1 bass	2 wide band + 2 tweeter, front	2 wide band, front	2 high-middle + 1 bass	2 wide band + 2 tweeter, front
CONNECTIONS / SOCKETS					
HDMI	2x (1x via DVI-HDMI adaptor)	2x	•	2x (1x via DVI-HDMI adaptor)	•
DVI	2x (1x via DVI-HDMI adaptor)	–	–	2x (1x via DVI-HDMI adaptor)	–
HDCP	• (via HDMI / DVI)	• (via HDMI)	• (via HDMI)	• (via HDMI / DVI)	• (via HDMI)
Euro-AV socket / RGB and S-video suitable	2x / 2x RGB	2x / 2x RGB	2x / 1x RGB, 1x S-video	2x / 2x RGB	2x / 1x RGB
YUV sockets	• (3x Cinch video, 2x Cinch audio)	• (3x Cinch video, 2x Cinch audio)	• (3x Cinch video, 2x Cinch audio)	• (3x Cinch video, 2x Cinch audio)	• (3x Cinch video, 2x Cinch audio)
S-video input (hosiden)	• (lateral)	• (lateral)	•	•	• (lateral)
Cinch-AV sockets	• (lateral)	• (lateral)	•	•	• (lateral)
VGA interface for PC	• (Multisync WXGA via DVI-I)	• (Multisync WXGA)	• (Multisync WXGA)	• (Multisync WXGA via DVI-I))	• (Multisync WXGA)
SPDIF out	• (optical)	• (coaxial)	–	• (optical)	• (coaxial)
Headphones socket (Ø 3.5 mm)	•	• (lateral)	• • (lateral)	•	• (lateral)
Common interface (CA modules)	–	•	–	–	•
MAINS UNIT					
Voltage (regulated), frequency 50/60 Hz V~	230	230	100 – 240	230	230
Integrated supply	•	•	•	•	•
Power consumption max. / stand-by approx. W	155 / < 1	171 / < 2	175/ < 1	145/ < 2	145 / < 2.5
Weight approx. kg	29	29	30	25.1	20.7
Dimensions (W x H x D) approx. cm	96.3 x 70.7 x 14 (33 with pedestal)	96.3 x 70.7 x 14 (27.5 with pedestal)	96.2 x 69.9 x 13 (26.2 with pedestal)	82.5 x 61.9 x 11.4 (25.1 with pedestal)	82.4 x 61 x 10.3 (24.8 with pedestal)

Technical data supplied without liability.

LCD TELEVISION SETS	LENARO 32 LXW 82-8720 Dolby	VIVANCE II 32 LXW 82-6711 Text	VISION+ 26 LXW 68-9740 Dolby	LENARO 26 LXW 68-7732 DVB-T	LENARO 26 LXW 68-8720 Dolby	VISION 20 LCD 51-8720 Text
Catalogue page	14	16	9	12	15	8
PICTURE						
Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display
Screen diagonal inches	32	32	26	26	26	20
16:9 wide-screen format	•	•	•	•	•	–
Response time approx. ms	8	8	8	8	8	8
Brightness approx. cd/m²	500	500	450	500	500	500
Contrast ratio approx.	1,200 : 1	1,200 : 1	4,000 : 1 (Dynamic Contrast Plus)	1,200 : 1	1,200 : 1	700 : 1
Viewing angle approx.	178° vertical, 178° horizontal	178° vertical, 178° horizontal	viewing angle free	178° vertical, 178° horizontal	176° vertical, 176° horizontal	130° vertical, 150° horizontal
Resolution RGB pixel	WXGA 1366 x 768	WXGA 1366 x 768	WXGA 1366 x 768	WXGA 1366 x 768	WXGA 1366 x 768	VGA 640 x 480
100 Hz technology	–	–	–	–	–	–
Digital Reference Plus II technology	–	–	•	–	–	–
Motion Compensation	–	–	–	–	–	–
10-bit technology	–	–	•	–	–	–
Perfect Clear	–	–	•	–	–	–
HD ready	•	•	•	•	•	–
Increased colour contrast (DCTI)	•	•	•	•	•	•
Picture definition storable / comb filter	•/• (3-D)	•/•	•/• (3-D)	•/•	•/• (3-D)	•/•
INTEGRATED DVB-T RECEIVER						
Digital TV reception via house- or room antenna	–	–	integrable via G-bus interface	•	–	–
ELECTRONICS						
Easy Dialog / intelligent user concept	–/•	–/•	•/•	–/•	–/•	–
Automatic tuning system	•	•	•	•	•	•
Picture-in-picture	2-tuner PIP	–	1-tuner AV-PIP	–	2-tuner PIP	–
PAP – splitted screen (picture / picture)	•	–	–	–	•	–
PAT – splitted screen (picture / text)	•	•	•	•	•	–
Programme memory TV / AV	99 / 8	100 / 7	99 / 7	100 (899 DVB-T) / 8	99 / 8	100 / 5
Videotext / memory	• / 1,200	• / 10	• (Level 2.5) / 2,000	• / 10	• / 1,200	• / 10
TV standards	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM,	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM,
	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.
	A2 for B/G/D/K/I, Nicam 5.85 MHz	A2 for B/G/D/K/I, Nicam 5.85 MHz	A2 for B/G/D/K, Nicam 5.85 MHz	A2 for B/G/D/K/I, Nicam 5.85 MHz	A2 for B/G/D/K/I, Nicam 5.85 MHz	A2 for B/G/D/K, Nicam 5.85 MHz
	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)
Control keys on set	•	•	–	•	•	•
Infrared remote control	Tele-Pilot® 170 C	Tele-Pilot® 170 C	Tele-Pilot® 170 C	Tele-Pilot® 170 C	Tele-Pilot® 170 C	Tele-Pilot® 170 C
SOUND						
Music / nominal output approx. W	2-channel 20 / 10	2-channel 14 / 7	3-channel 40 / 22	2-channel 14 / 7	2-channel 14 / 7	2-channel 10 / 5
Magic Fidelity / Virtual Dolby Surround	–/•	–	•/•	–	–/•	–
Headphones volume separately adjustable	•	•	•	•	•	•
Headphones tone channel selection	•	•	•	•	•	•
for 2-tone reception						
Loudspeakers	2 wide band + 2 tweeter, front	2 wide band, front	2 high-middle + 1 bass	2 wide band + 2 tweeter, front	2 wide band + 2 tweeter, front	2 wide band, front
CONNECTIONS / SOCKETS						
HDMI	2x	•	2x (1x via DVI-HDMI adaptor)	•	2x	–
DVI	–	–	2x (1x via DVI-HDMI adaptor)	–	–	–
HDCP	• (via HDMI)	• (via HDMI)	• (via HDMI / DVI)	• (via HDMI)	• (via HDMI)	–
Euro-AV socket / RGB and S-video suitable	2x / 1x RGB	2x / 1x RGB	2x / 2x RGB	2x / 1x RGB	2x / 1x RGB	1x / 1x RGB
YUV sockets	• (3x Cinch video, 2x Cinch audio)	• (3x Cinch video, 2x Cinch audio)	• (3x Cinch video, 2x Cinch audio)	• (3x Cinch video, 2x Cinch audio)	• (3x Cinch video, 2x Cinch audio)	–
S-video input (hosiden)	• (lateral)	• (lateral)	•	• (lateral)	• (lateral)	•
Cinch-AV sockets	• (lateral)	• (lateral)	•	• (lateral)	• (lateral)	•
VGA interface for PC	• (Multisync WXGA)	• (Multisync WXGA)	• (Multisync WXGA via DVI-I))	• (Multisync WXGA)	• (Multisync WXGA)	• (VGA)
SPDIF out	–	• (coaxial)	• (optical)	• (coaxial)	–	–
Headphones socket (Ø 3.5 mm)	• (lateral)	• (lateral)	•	• (lateral)	• (lateral)	•
Common interface (CA modules)	–	–	–	•	–	–
MAINS UNIT						
Voltage (regulated), frequency 50/60 Hz V~	100 – 240	230	230	230	100 – 240	230
Integrated supply	•	•	•	•	•	•
Power consumption max. / stand-by approx. W	165 / < 2	145 / < 2	107 / < 2	125 / < 2.5	120 / < 2	55 / < 2
Weight approx. kg	20.7	21	18.6	14	14	11
Dimensions (W x H x D) approx. cm	82.4 x 61 x 10.3 (28.5 with pedestal)	82.4 x 62.4 x 10.4 (25 with pedestal)	69.1 x 54.4 x 11.2 (24 with pedestal)	70.1 x 53.7 x 9.7 (20.6 with pedestal)	70.1 x 53.7 x 9.7 (28.5 with pedestal)	50.5 x 49.5 x 8 (19.2 with pedestal)

Technical data supplied without liability.

LCD TELEVISION SETS	DAVIO 20 LCD 51-5710 Text	LENARO 19 LXW 49-7741 DVB-T	LENARO 19 LXW 49-7711 Text	LENARO 19 LCD 49-7710 BS	DAVIO 15 LCD 38-5701 BS	DAVIO 15 LCD 38-5700 BS	DAVIO 7 LW 18-5701 IDTV
Catalogue page	17	12	15	15	17	17	17
PICTURE							
Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display
Screen diagonal inches	20	19	19	19	15	15	7
16:9 wide-screen format	–	•	•	–	–	–	•
Response time approx. ms	8	8	8	6	12	12	18
Brightness approx. cd/m²	500	300	300	500	400	400	500
Contrast ratio approx.	700 : 1	700 : 1	700 : 1	700 : 1	500 : 1	500 : 1	300 : 1
Viewing angle approx.	130° vertical, 150° horizontal	176° vertical, 176° horizontal	176° vertical, 176° horizontal	140° vertical, 160° horizontal	135° vertical, 130° horizontal	135° vertical, 130° horizontal	130° vertical, 130° horizontal
Resolution RGB pixel	VGA 640 x 480	WXGA 1440 x 900	WXGA 1440 x 900	XGA 1280 x 1024	XGA 1024 x 768	XGA 1024 x 768	WVGA 720 x 576
100 Hz technology	–	–	–	–	–	–	–
Digital Reference Plus II technology	–	–	–	–	–	–	–
Motion Compensation	–	–	–	–	–	–	–
10-bit technology	–	–	–	–	–	–	–
Perfect Clear	–	–	–	–	–	–	–
HD ready	–	•	•	–	–	–	–
Increased colour contrast (DCTI)	•	•	•	–	–	–	–
Picture definition storable / comb filter	•/•	•/•	•/•	–/•	–/•	–/•	–
INTEGRATED DVB-T RECEIVER							
Digital TV reception via house- or room antenna	–	•	–	–	–	–	•
ELECTRONICS							
Easy Dialog / intelligent user concept	–	–	–	–	–	–	–
Automatic tuning system	•	•	•	•	•	•	•
Picture-in-picture	–	–	–	–	–	–	–
PAP – splitted screen (picture / picture)	–	–	–	–	–	–	–
PAT – splitted screen (picture / text)	–	•	•	–	–	–	–
Programme memory TV / AV	100 / 4	100 / 5	100 / 5	99 / 5	99 / 4	99 / 4	256 (999 DVB-T) / 1
Videotext / memory	• / 10	• / 10	• / 10	• / 10	• / 10	• / 10	• (via DVB-T) / –
TV standards	BG, I, DK/K', L/L'. PAL, SECAM,	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK/K', L/L'. PAL, SECAM	BG, I, DK, PAL, M
	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	–
	A2 for B/G/D/K, Nicam 5.85 MHz	A2 for B/G/D/K/I, Nicam 5.85 MHz	A2 for B/G/D/K/I, Nicam 5.85 MHz	A2 for B/G/D/K/I, Nicam 5.85 MHz	A2 for B/G/D/K/I, Nicam 5.85 MHz	A2 for B/G/D/K/I, Nicam 5.85 MHz	–
	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)	(BG, L) + 6.52 MHz (I)	–
Control keys on set	•	•	•	•	•	•	•
Infrared remote control	Tele-Pilot® 170 C	Tele-Pilot® 170 C	Tele-Pilot® 170 C	Tele-Pilot® 160 C	Tele-Pilot® 160 C	Tele-Pilot® 160 C	RC Davio 7
SOUND							
Music / nominal output approx. W	2-channel 10 / 5	2-channel 10 / 5	2-channel 10 / 5	2-channel 10 / 5	2-channel 4 / 2	2-channel 4 / 2	2-channel 6 / 3
Magic Fidelity / Virtual Dolby Surround	–	–	–	–	–	–	–
Headphones volume separately adjustable	•	•	•	•	•	•	–
Headphones tone channel selection	•	•	•	•	•	•	–
for 2-tone reception							
Loudspeakers	2 wide band, front	2 wide band, front	2 wide band, front	2 wide band, front	2 wide band, front	2 wide band, front	2 wide band, front
CONNECTIONS / SOCKETS							
HDMI	–	•	•	–	–	–	–
DVI	–	–	–	–	–	–	–
HDCP	–	• (via HDMI)	• (via HDMI)	–	–	–	–
Euro-AV socket / RGB and S-video suitable	1x / 1x RGB	1x / 1x RGB	1x / 1x RGB	2x / 1x RGB	1x / 1x RGB	1x / 1x RGB	(via 3.5 mm jack)
YUV sockets	–	• (3x Cinch video, 2x Cinch audio)	• (3x Cinch video, 2x Cinch audio)	–	–	–	–
S-video input (hosiden)	•	• (lateral)	• (lateral)	• (lateral)	•	•	–
Cinch-AV sockets	•	• (lateral)	• (lateral)	• (lateral)	•	•	(via 3.5 mm jack)
VGA interface for PC	• (VGA)	• (Multisync WXGA)	• (Multisync WXGA)	• (XGA)	• (XGA)	• (XGA)	–
SPDIF out	–	•	•	–	–	–	–
Headphones socket (Ø 3.5 mm)	•	• (lateral)	• (lateral)	• (lateral)	•	•	• (lateral)
Common interface (CA modules)	–	–	–	–	–	–	–
MAINS UNIT							
Voltage (regulated), frequency 50/60 Hz V~	230	100 – 240	100 – 240	100 – 240	100 – 240	100 – 240	100 – 240
Integrated supply	•	– (AC/DC adaptor 12 V= / 5 A)	– (AC/DC adaptor 12 V= / 5 A)	•	– (AC/DC adaptor 12 V = / 4 A)	•	– (AC/DC adaptor 7 - 12 V= / 2 A)
Power consumption max. / stand-by approx. W	55 / < 2	50 / < 2	50 / < 2	45 / < 2	36 / < 2	45 / < 2	15
Weight approx. kg	8.6	7.5	7.5	7.5	4.4	4.4	0.6
Dimensions (W x H x D) approx. cm	50.4 x 46 x 7.9 (19.3 with pedestal)	54.8 x 41 x 8.7 (17.4 with pedestal)	54.8 x 41 x 8.7 (17.4 with pedestal)	53.5 x 47.6 x 9.5 (19.6 with pedestal)	39 x 36 x 9.5 (16 with pedestal)	39 x 36 x 9.5 (16 with pedestal)	22.5 x 12.6 x 2.8

Technical data supplied without liability.

CLASSICAL TELEVISION SETS		SEDANCE 70 ST 70-2010 Text	ST 70-2003 Text	XENTIA 21 MFS 55-4701/8 TOP
Catalogue page		18	19	19
PICTURE				
Picture tube		Black Line FX	Black Line FX	Black Line FX Slim Line Real Flat
Picture tube diagonal	inches	28	28	21
100 Hz technology		•	–	–
Increased colour contrast (CTI)		•	–	–
Picture definition storable		•	•	•
ELECTRONICS				
Electronic program guide		–	–	Now & Next
Automatic tuning system		•	•	•
PAT – splitted screen (picture/text)		•	–	–
Sleeptimer / Hotel mode		•/–	•/•	•/•
Programme memory TV / AV		100 / 2, s-video, camera	100 / 2, s-video, camera	100 / 2
Videotext / Memory		• / 9	• / 10	• / 8
TV standards		BG, PAL,	BG, PAL, Secam	BG, I, DK/K', L/L', PAL, Secam
		via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 + 3.58 MHz.
		A2	A2	A2 for B/G/D/K, Nicam 5.58 MHz (BG, L)
Infrared remote control		Tele-Pilot® 160 C	Tele-Pilot® 160 C	Tele-Pilot® 160 C
SOUND				
Music / nominal output	W	2-channel 24 / 12	2-channel 20 / 11	2-channel 14 / 7
Loudspeakers		2 tweeter + 2 wide band, front	3 wide band, front	2 wide band, front
CONNECTIONS / SOCKETS				
S-video input (hosiden) for camera recorder		• (lateral)	–	• (lateral)
Euro-AV socket / S-video suitable		2x	2x / 1x	2x / 1x
Cinch-AV (camera recorder)		• (lateral)	• (lateral)	• (lateral)
Headphones socket (Ø 3.5 mm)		• (lateral)	• (lateral)	• (lateral)
MAINS UNIT				
Voltage (regulated), frequency 50/60 Hz	V~	230	230	230
Power consumption max. / stand-by	approx. W	38 / 5	83 / 3	60 / 2
Weight	approx. kg	31	31	23
Dimensions (W x H x D)	approx. cm	73 x 55 x 45.7	73 x 55 x 45.7	62 x 45.5 x 41.8

Technical data supplied without liability.

CLASSICAL TELEVISION SETS		SEDANCE 55 ST 55-2502 Text	DAVIO 21 T 55-4501 Text	DAVIO 20 T 51-4501 Text	DAVIO 14 P 37-4501 Text
Catalogue page		18	19	19	19
PICTURE					
Picture tube		Black Matrix	Black Matrix	Black Matrix	Black Matrix
Picture tube diagonal	inches	21	21	20	14
100 Hz technology		–	–	–	–
Increased colour contrast (CTI)		–	–	–	–
Picture definition storable		•	•	•	•
ELECTRONICS					
Electronic program guide		Now & Next	–	–	–
Automatic tuning system		•	•	•	•
PAT – splitted screen (picture/text)		–	–	–	–
Sleeptimer / Hotel mode		•/•	•/•	•/•	•/•
Programme memory TV / AV		100 / 1	100 / 1	100 / 1	100 / 1
Videotext / Memory		•/ 12	•/ 1	•/ 1	• / 1
TV standards		BG, PAL, Secam	BG, PAL,	BG, PAL,	BG, PAL,
		via AV: NTSC 4.43 + 3.58 MHz.	via AV: NTSC 4.43 MHz	via AV: NTSC 4.43 MHz	via AV: NTSC 4.43 MHz
		A2			
Infrared remote control		Tele-Pilot® 160 C	Tele-Pilot® 160 C	Tele-Pilot® 160 C	Tele-Pilot® 160 C
SOUND					
Music / nominal output	W	2-channel 14 / 7	5 / 2,5	5 / 2,5	4 / 2
Loudspeakers		2 wide band, front	1 wide band, front	1 wide band, front	1 wide band, front
CONNECTIONS / SOCKETS					
S-video input (hosiden) for camera recorder		–	–	–	–
Euro-AV socket / S-video suitable		1x / –	1x / –	1x / –	1x / –
Cinch-AV (camera recorder)		• (lateral)	–	–	–
Headphones socket (Ø 3.5 mm)		• (lateral)	–	–	–
MAINS UNIT					
Voltage (regulated), frequency 50/60 Hz	V~	230	230	230	230
Power consumption max. / stand-by	approx. W	51 / 2	45 / 4	45 / 4	28 / 4
Weight	approx. kg	20	20.2	17.4	9.4
Dimensions (W x H x D)	approx. cm	59.3 x 45.4 x 49.7	50.8 x 47.8 x 48.6	50.8 x 47.8 x 47.9	37.2 x 35.6 x 36.9

Technical data supplied without liability.

DVB-S-RECEIVERS	DSR 4530 HDD	DSR 3735 CI	DSR 1776 P	DSR 1773 CY	DSR 1750 MICRO
Catalogue page	20	20	21	21	20
SYSTEM FEATURES					
Reception of digital TV receivers	via satellite antenna	via satellite antenna	via satellite antenna	via satellite antenna	via satellite antenna
TV- / radio programs	4,000	2,000	2,000	2,000	2,000
	preset channel table f. 30 satellite positions	preset channel table for Astra 19,2°,	preset channel table for Astra 19,2°,	preset channel table for Astra 19,2°,	preset channel table for Astra 19,2°,
	e.g. for Astra 19,2°, Hotbird, Türksat 1 C, Sirius 2/3,	Hotbird and Türksat 1 C	Hotbird and Türksat 1 C	Hotbird and Türksat 1 C	Hotbird and Türksat 1 C
	Amos, Hellas Sat				
SI-based EPG (electrical program guide)	•	•	•	•	•
Permanent evaluation of program attending data	•	•	•	•	•
Dynamic PMT-evaluation	•	•	•	•	•
Adjustment – picture formats:	4 : 3, 16 : 9, pan & scan, letter box	4 : 3, 16 : 9, 2.21 : 1 (PAL only)	4 : 3, 16 : 9, 2.21 : 1 (PAL only)	4 : 3, 16 : 9, 2.21 : 1 (PAL only)	4 : 3, 16 : 9, pan & scan, letter box
– sound formats:	Stereo, mono L, mono R	Stereo, mono L, mono R, mono L + R	Stereo, mono L, mono R, mono L + R	Stereo, mono L, mono R, mono L + R	Stereo, mono L, mono R, mono L + R
Transmission VPS signals / videotext (VBI)	• / •	– / •	– / •	– / •	– / •
Channel search mode / program list edit	Automatic and manual / •	Automatic and manual / •	Automatic and manual / •	Automatic and manual / •	Automatic and manual / •
Personal set of a program list	•	•	•	•	•
Demodulation / Symbol rate MS/s	QPSK / 2-45 (SCPC/MCPC)	QPSK / 1-45 (SCPC/MCPC)	QPSK / 1-45 (SCPC/MCPC)	QPSK / 1-45 (SCPC/MCPC)	QPSK / 1-45 (SCPC/MCPC)
FEC (Fault correction autom. perception function)	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Input frequency range (MHz)	950 - 2150	950 - 2150	950 - 2150	950 - 2150	950 - 2150
Input level / input resistor	- 65 dBm to - 25 dBm / 75 Ohm	- 65 dBm to - 25 dBm / 75 Ohm	- 65 dBm to - 25 dBm / 75 Ohm	- 65 dBm to - 25 dBm / 75 Ohm	- 65 dBm to - 25 dBm / 75 Ohm
LNB-supply (V) / LNB Power (mA)	0, 14, 18 / 400	0, 14, 18 / 400	0, 14, 18 / 400	0, 14, 18 / 400	0, 14, 18 / 275
DiSEqC / 22 kHz	1.0 / •	1.0 / •	1.0 / •	1.0 / •	1.0 / •
RECORDING					
Integrated hard disk	80 GB	–	–	–	–
Record programming	manually or via SI-based EPG	–	–	–	–
Instant record	•	–	–	–	–
Time shift	simultaneously record and playback	–	–	–	–
VIDEO FEATURES					
MPEG profile	MP@ML	MP@ML	MP@ML	MP@ML	MP@ML
Decode of data rate / Resolution	up to 15 MBit/sec / 720 x 576	up to 15 MBit/sec / 720 x 576	up to 15 MBit/sec / 720 x 576	up to 15 MBit/sec / 720 x 576	up to 15 MBit/sec / 720 x 576
On Screen display (OSD)-colours	256	16 Mio.	16 Mio.	16 Mio.	256
AUDIO FEATURES					
MPEG profile	MPEG 2 layer I&II (Musicam)	MPEG 2 layer I&II (Musicam)	MPEG 2 layer I&II (Musicam)	MPEG 2 layer I&II (Musicam)	MPEG 2 layer I&II (Musicam)
AC 3-output	S/PDIF	S/PDIF	S/PDIF	S/PDIF	–
Digital Analog Converter (DAC)	24 Bit	24 Bit	24 Bit	24 Bit	24 Bit
SOFTWARE					
Teletext / DVB subtitle	• / •	• / •	• / •	• / •	• / •
Software update - download over	Satellite antenna (via Astra) / RS 232	Satellite antenna (via Astra)	Satellite antenna (via Astra)	Satellite antenna (via Astra)	Satellite antenna (via Astra)
Last Station Memory / Sleeptimer / Timer memory cell	• / • / 10	• / • / 8	• / – / 8	• / – / 8	• / – / 8
Volume control / mute function	• / •	• / •	• / •	• / •	• / •
OSD-language	D, E, F, GB, I, PL, S, FIN	D, F, E, I, GB, FIN, S, PL, P, CZ, DK, TR	D, F, E, I, GB, FIN, S, PL, P, CZ, DK, TR	D, F, E, I, GB, FIN, S, PL, P, CZ, DK, TR	D, F, E, I, GB, FIN, S, PL, P, CZ, DK, TR
DISPLAY					
VF display	•	–	–	–	–
Alphanumerical display / LED display	• / Stand-by	– / •	– / • (via infrared mouse)	– / • (via infrared mouse)	– / • (via infrared mouse)
PROCESSOR					
CPU	32 bit	32 bit	32 bit	32 bit	32 bit
Memory	16 MB RAM, 2 MB Flash	16 MB RAM, 2 MB Flash	16 MB RAM, 2 MB Flash	16 MB RAM, 2 MB Flash	16 MB RAM, 2 MB Flash
CONNECTIONS					
Smart card reader	–	–	Nagravision CAK 6.0g	CryptoWorks	–
Common Interface (CA modules)	–	1 slot	–	–	–
SAT input	IEC-F-type, socket	IEC-F-type, socket	IEC-F-type, socket	IEC-F-type, socket	IEC-F-type, socket
Serial interface	RS 232 (9-pole Sub-D connector)	–	–	–	–
HDMI output	–	•	–	–	–
TV Scart output	FBAS, RGB, Y/C, YUV / +FBAS (Cinch)	FBAS, RGB, Y/C	FBAS, RGB, Y/C	FBAS, RGB, Y/C	FBAS, RGB, Y/C
VCR Scart output/-input	• / •	• / –	–	–	–
Audio output	2x Cinch for stereo L+R	2x Cinch for stereo L+R	–	–	–
Dolby Digital output (S/PDIF)	electrical (Cinch)+ optical	optical	•	•	–
Infrared remote control	TP 767 PVR (4 levels: PVR, digital receiver 1, TV, DVD)	TP 766 S (4 levels: digital receiver 1 and 2, TV, DVD)	TP 766 S (4 levels: digital receiver 1 and 2, TV, DVD)	TP 766 S (4 levels: digital receiver 1 and 2, TV, DVD)	TP 766 S (4 levels: digital receiver 1 and 2, TV, DVD)
MAINS SUPPLY					
Mains voltage, 50 Hz V~	230	230 / 12 V=	230 / 12 V=	230 / 12 V=	230 / 12 V=
Power consumption max. / stand-by approx. W	20 without LNB / < 6	12 without LNB / [1]	8 without LNB / < 6	8 without LNB / < 6	8 without LNB / < 5
Weight approx. kg	1.8	[1]	0.11	0.11	0.09
Dimensions (W x H x D) approx. cm	36 x 6 x 28	25.2 x 3.0 x 15.7	11 x 2.5 x 7	11 x 2.5 x 7	9.5 x 5.3 x 2.4

Technical data supplied without liability.

[1] Data were not defined at the time of printing.

DVB-T-RECEIVERS		DTR 1760 MICRO
Catalogue page		20
SYSTEM FEATURES		
Reception of digital TV receivers		via house- or room antenna
TV- / radio programs		4,000
SI-based EPG (electrical program guide)		•
Permanent evaluation of program attending data		•
Dynamic PMT-evaluation		•
Adjustment	– picture formats:	4 : 3, 16 : 9, 2.21 : 1 (PAL only)
	– sound formats:	Stereo, mono L, mono R
Videotext (VBI)		•
Channel search mode / program list edit		Automatic and manual / •
Personal set of a program list		•
Demodulation / Symbol rate MS/s		COFDM: 2 / 8 k; QPSK / 16 / 64 QAM
FEC (Fault correction autom. perception function)		1/2, 2/3, 3/4, 5/6, 7/8
Input frequency range (MHz)		VHF & UHF Band III, IV and V
Input level / input resistor		- 72 dBm / 75 Ohm
Antenna supply		5 V / 30 mA for active Antennas
VIDEO FEATURES		
MPEG profile		MP@ML
Decode of data rate		up to 15 MBit/sec
Resolution		720 x 576
On Screen display (OSD)-colours		16 Mio.
AUDIO FEATURES		
MPEG profile		MPEG 2 layer I&II (Musicam)
Digital Analog Converter (DAC)		24 Bit
SOFTWARE		
Teletext / DVB subtitle		• / •
Software update - download over		over air
Last Station Memory		•
Sleeptimer / Timer memory cell		•
Volume control / mute function		• / •
OSD-language		D, F, E, I, GB, FIN, S, PL, P, DK, TR
PROCESSOR		
CPU		32 Bit
Memory		16 MB RAM, 2 MB Flash
CONNECTIONS		
Antenna input		IEC 60169-2, socket
TV Scart output		FBAS, RGB, Y/C
Infrared remote control		TP 766 S (4 levels: digital receiver 1 and 2, TV, DVD)
MAINS SUPPLY		
Mains voltage, 50 Hz	V~	230 / 12 V=
Power consumption max. / stand-by	approx. W	< 4 / < 2
Weight	approx. kg	0.07
Dimensions (W x H x D)	approx. cm	9.5 x 5.3 x 2.4

Technical data supplied without liability.

DVB-C-RECEIVERS		DCR 1786 P
Catalogue page		21
SYSTEM FEATURES		
Reception of digital TV receivers		via cable
TV- / radio programs		2,000
SI-based EPG (electrical program guide)		•
Permanent evaluation of program attending data		•
Dynamic PMT-evaluation		•
Adjustment	– picture formats:	4 : 3, 16 : 9, 2.21 : 1 (PAL only)
	– sound formats:	Stereo, mono L, mono R, mono L + R
Videotext (VBI)		•
Channel search mode / program list edit		Automatic and manual / •
Personal set of a program list		•
Demodulation / Symbol rate MS/s		QAM 16/32/64/128/256 / 1.7 - 7
Input frequency range (MHz)		47 - 862 VHF & UHF
Input level / input resistor		- 68 dBm (64 QAM) / 75 Ohm
VIDEO FEATURES		
MPEG profile		MP@ML
Decode of data rate		up to 15 MBit/sec
Resolution		720 x 576
On Screen display (OSD)-colours		16 Mio.
AUDIO FEATURES		
MPEG profile		MPEG 2 layer I&II (Musicam)
AC 3-output		S/PDIF
Digital Analog Converter (DAC)		24 Bit
SOFTWARE		
Teletext / DVB subtitle		• / •
Software update - download over		over air
Last Station Memory		•
Timer		•
Volume control / mute function		• / •
OSD-language		D, F, E, I, GB, P, TR, RUS
PROCESSOR		
CPU		32 bit
Memory		16 MB RAM, 2 MB Flash
CONNECTIONS		
Smart card reader		Nagravision CAK 6.0g
Antenna input / Loop through output		• / •
TV Scart output		FBAS, RGB, Y/C
Dolby Digital output (S/PDIF)		•
Infrared remote control		TP 766 S (4 levels: digital receiver 1 and 2, TV, DVD)
MAINS SUPPLY		
Mains voltage, 50 Hz	V~	230 / 12 V=
Power consumption max. / stand-by	approx. W	< 8 / < 6
Weight	approx. kg	0.11
Dimensions (W x H x D)	approx. cm	11 x 2.5 x 7

Technical data supplied without liability.

DVD RECORDERS		GDRH 5625	GDR 5550 HDD
Catalogue page		23	23
TUNING SYSTEM			
TV standards		BG, DK, I / L/L' / PAL, Secam	BG, DK, I / L/L' / PAL, Secam
Sound format processing		A2 Stereo, Nicam	A2 Stereo, Nicam
INTEGRATED RECORDING MEDIA			
Capacity of hard disk		250 GB	160 GB
Record programming / Instant record		permanent time shift / •	permanent time shift / •
Time shift		simultaneously record and playback	simultaneously record and playback
Time shift mode		1 h, 3 h, 6 h adjustable	3 h fix
Recording formats		DVD+RW / DVD-RW / DVD+R / DVD-R	DVD+RW / DVD-RW / DVD+R / DVD-R
YesDVD		version 1.51 for HDD, DVD+R/+RW and DVD-R/-RW	version 1.1 for DVD+R/DVD+RW
Recording capacity (4.7 GB DVD)		1 - 8 h (depending on recording mode)	1 - 8 h (depending on recording mode)
Recording modes		HQ, SP, SP+, LP, EP, SLP+, SEP++	HQ, SP, SP+, LP, EP, SLP+, SEP++
Playable formats		DVD video / DVD-R / DVD-RW / DVD+R / DVD+RW / DivX DVD / Audio CD / CD-R / CD-RW /Video CD (2.0) / S-VCD / MP3 / JPEG / Kodak Picture CD / DivX CD / WMA	DVD video / DVD-R / DVD-RW / DVD+R / DVD+RW / DivX DVD / Audio CD / CD-R / CD-RW / Video CD (2.0) / S-VCD / MP3 / JPEG / Kodak Picture CD / DivX CD / WMA
Picture Viewer		• /JPEG- / Kodak Picture CD	• /JPEG- / Kodak Picture CD
Copy function		hard disk - DVD; DVD - hard disk; USB - DVD; USB - hard disk	hard disk - DVD; USB - DVD
Dubbing mode		Fit-to-Disc 1 x, High Speed 2 x, Highest Speed 4 x	High Speed 2 x
Jukebox for media files		MP3, WMA, JPEG, DivX	–
RECORD PROGRAMMING			
VPS / PDC control / Timer programming manual		• / • / •	• / • / •
Timer, number of events (1 year)		8	8
Timer programming once / daily / weekly		•	•
Timer programming Mo-Fr / Mo-Sa / weekend		•	•
VIDEO			
Video D/A converter / Horizontal resolution (DVD)		54 MHz / 576i, 576p	54 MHz / 576i, 576p
Progressive Scan PAL / NTSC / PIP functions		• / • / •	• / • / •
AUDIO			
D/A converter		192 kHz / 24 Bit	192 kHz / 24 Bit
Frequenzy range DVD 48 kHz / 96 kHz		4 Hz – 22 kHz / 4 Hz – 44 kHz	4 Hz – 22 kHz / 4 Hz – 44 kHz
Frequenzy range CD 44.1 kHz		4 Hz – 20 kHz	4 Hz – 20 kHz
Dynamic range (1 kHz) / Signal noise (1 kHz)	dB	85 / 90	85 / 90
Audio downsampling		•	•
Digital Sound decoder		Dolby Digital AC3, MPEG 2, MP3, WMA	Dolby Digital AC3, MPEG 2, MP3, WMA
Digital outputs		Dolby Digital AC3, MPEG 2, DTS, PCM	Dolby Digital AC3, MPEG 2, DTS, PCM
Dolby ProLogic		•	•
PLAYBACK FEATURES			
Fast picture search (forward and reverse)		2x / 4x / 8x / 16x / 32x	2x / 4x / 8x / 16x / 32x
Title / chapter skip		•	•
Direct chapter selection with 10 key keypad		•	•
Perfect still picture / picture-by-picture playback		• / •	• / •
Slow motion (forward and reverse)		1/2, 1/4, 1/8, 1/16 (forward)	1/2, 1/4, 1/8, 1/16 (forward)
Quick replay		•	•
Repeat		Title / chapter / sequence A – B	Title / chapter / sequence A – B
CONNECTIONS			
USB / Progressive video out (YUV cinch)		1.1 (front) / •	1.1 (front) / •
Euro-AV, scart		2 x (RGB, S-video)	2 x (RGB, S-video)
Cinch video out (CVBS) / Cinch audio stereo downmix		• / •	• / •
Cinch video in (CVBS) / Cinch audio stereo in		• / • (front ad rear)	• / • (front ad rear)
S-video socket (Y/C) in / out		• / •	• / •
Digital video in / control of a DV camera		• / • (front)	• / • (front)
Digital audio out coaxial / optical		• / •	• / •
MAINS UNIT			
Mains voltage	V~	110 – 240, 50 – 60 Hz	110 – 240, 50 – 60 Hz
Power consumption max. / stand-by	approx. W	50 / < 4	50 / < 4
Weight	approx. kg	4.5	4.5
Dimensions (W x H x D)	approx. cm	43 x 5.5 x 32	43 x 5.5 x 32
Supplied accessories		Euro-AV cable, 1 x cinch video cable, 1 x cinch audio digital cable, 1 x DVD+RW	Euro-AV cable, 1 x cinch video cable, 1 x cinch audio digital cable, 1 x DVD+RW

Technical data supplied without liability.

PORTABLE DVD PLAYER		DVD-P 8600	DVD-P 7600
Catalogue page		22	22
Playable disc formats 12/8 cm		DVD-Video / DVD-R / DVD-RW / DVD+R / DVD+RW / Audio-CD / CD-R / CD-RW / Video CD (2.0) / MP3 / JPEG / Kodak-Picture CD	DVD-Video / DVD-R / DVD-RW / DVD+R / DVD+RW / Audio-CD / CD-R / CD-RW / Video CD (2.0) / MP3 / JPEG / Kodak-Picture CD
DivX (Home Theater certificated)		•	•
Picture Viewer		• /JPEG- / Kodak Picture CD	• /JPEG- / Kodak Picture CD
Laser scan		2 Laser (1 x CD, 1 x DVD)	2 Laser (1 x CD, 1 x DVD)
PAL / NTSC-playback		• / •	• / •
DISPLAY			
Panel		Active Matrix TFT-LC-Display	Active Matrix TFT-LC-Display
Screen diagonal	inches	8	7
16:9 wide-screen format		•	•
Brightness	approx. cd/m²	350	350
Contrast ratio	approx.	300 : 1	300 : 1
Resolution max.	RGB pixel	800 x 460	480 x 234
VIDEO			
Video D/A converter		54 MHz / 10 bit	54 MHz / 10 bit
Horizontal resolution (DVD)		more than 500 TV lines	more than 500 TV lines
Digital video optimizing for still picture / block noise reduction		• / •	• / •
AUDIO			
D/A converter		96 kHz / 24 Bit	96 kHz / 24 Bit
Frequency range DVD 48 kHz / 96 kHz		4 Hz – 22 kHz / 4 Hz – 44 kHz	4 Hz – 22 kHz / 4 Hz – 44 kHz
Frequency range CD 44.1 kHz	dB	20 Hz – 20 kHz	20 Hz – 20 kHz
Dynamic range (1 kHz) / Signal noise (1 kHz)		85 / 65	85 / 65
Audio downsampling		•	•
Digital sound decoder		Dolby Digital AC3, MP3, PCM	Dolby Digital AC3, MP3, PCM
Dolby ProLogic		• (downmix)	• (downmix)
PLAYBACK FEATURES			
Fast picture search (forward and reverse)		2x / 4x / 8x / 20x	2x / 4x / 8x / 20x
Title / chapter skip		•	•
Direct chapter selection with 10 key keypad		•	•
Perfect still picture / picture by picture playback		• / •	–
Repeat		Title/chapter/sequence A – B	Title/chapter/sequence A – B
SPECIAL FEATURES			
Child lock / Language choice (dialog, subtitle) [1]		• / •	• / •
Multi-angle choice[1] / Anti Shock Protection (ASP)		• / •	• / •
OPERATING FEATURES			
Infrared remote control / On Screen Display		• / •	• / •
CONNECTIONS			
USB		•	–
SD card reader		•	–
Cinch video-out (CVBS) / cinch audio stereo downmix		• / • (via audio / video adaptor)	• / • (via audio / video adaptor)
Cinch video-in (CVBS) / cinch audio stereo-in		• / • (via audio / video adaptor)	• / • (via audio / video adaptor)
Headphones		•	• (2x)
MAINS UNIT			
Mains voltage	V~	100 – 240, 50 – 60 Hz	100 – 240, 50 – 60 Hz
Power consumption max.	approx. W	11.25	11.25
Weight	approx. kg	0.8	0.71
Dimensions (W x H x D)	approx. cm	22.6 x 4 x 16.6	19 x 3.6 x 15.1
Supplied accessories		Audio / video adaptor, earphones, 12 V AC/DC adaptor, integrated Li-ion battery, 12 V charging cable, bag with fixing belts, remote control	Audio / video adaptor, earphones, 12 V AC/DC adaptor, NIMH accu pack, 12 V charging cable, bag with fixing belts, remote control

Technical data supplied without liability.

[1] Depending on the DVD-Disc.

DVD PLAYERS		GDP 7700	GDP 3760	GDP 2750	GDP 1750
Catalogue page		24	25	25	25
Playable disc formats 12/8 cm		DVD-Video / DVD+RW / DVD-RW / DVD+R / DVD-R / DVD+R DL / DVD-R DL / MPEG4SP-DVD / Audio-CD / CD-R /CD-RW / Video CD (2.0) / S-VCD / MP3 / JPEG / HD-JPEG / Kodak Picture CD / WMA	DVD-Video / DVD+RW / DVD-RW / DVD+R / DVD-R / DVD+R DL / DVD-R DL / MPEG4SP-DVD / Audio-CD / CD-R /CD-RW / Video CD (2.0) / S-VCD / MP3 / JPEG / HD-JPEG / Kodak Picture CD / WMA	DVD-Video / DVD+RW / DVD-RW / DVD+R / DVD-R / DVD+R DL / DVD-R DL / Audio-CD / CD-R / CD-RW / Video CD (2.0) / S-VCD / MP3 / JPEG / Kodak Picture CD / WMA	DVD-Video / DVD+RW / DVD-RW / DVD+R / DVD-R / DVD+R DL / DVD-R DL / MPEG4SP-DVD / Audio-CD / CD-R /CD-RW / Video CD (2.0) / S-VCD / MP3 / JPEG / HD-JPEG / Kodak Picture CD / WMA
Nero digital (certificated)		•	•	•	–
DivX (compatible)		•	•	•	–
Picture Viewer		• / HD-JPEG- / JPEG- / Kodak Picture CD	• / HD-JPEG- / JPEG- / Kodak Picture CD	• / JPEG- / Kodak Picture CD	• / JPEG- / Kodak Picture CD
Laser scan		2 Laser (1 x CD, 1 x DVD)	2 Laser (1 x CD, 1 x DVD)	2 Laser (1 x CD, 1 x DVD)	2 Laser (1 x CD, 1 x DVD)
PAL / NTSC- playback		• / •	• / •	• / •	• / •
VIDEO					
Video D/A converter		108 MHz (12 Bit)	27 MHz (12 Bit)	27 MHz (10 Bit)	27 MHz (10 Bit)
Horizontal resolution (DVD) SD / HD		576i, 576p / 720p, 1080i (upconversion)	576i, 576p / 720p, 1080i (upconversion)	576i, 576p / –	576i, 576p / –
Progressive Scan PAL / NTSC		•	•	• / •	•
Digital video optimizing for still picture / Block noise reduction		• / •	• / •	• / •	• / •
AUDIO					
D/A converter		192 kHz / 24 Bit	192 kHz / 24 Bit	96 kHz / 24 Bit	96 kHz / 24 Bit
Frequency range DVD 48 kHz / 96 kHz		4 Hz – 22 kHz / 4 Hz – 44 kHz	4 Hz – 22 kHz / 4 Hz – 44 kHz	4 Hz – 22 kHz / 4 Hz – 44 kHz	4 Hz – 22 kHz / 4 Hz – 44 kHz
Frequency range CD 44.1 kHz		4 Hz – 20 kHz	4 Hz – 20 kHz	4 Hz – 20 kHz	4 Hz – 20 kHz
Dynamic range (1 kHz) / Signal noise (1 kHz)	dB	75 / 95	80 / 90	80 / 90	80 / 90
Dynamic adjustment		•	•	•	•
Audio downsampling		•	•	•	•
Digital sound decoder		Dolby Digital AC3, MPEG 2, MP3, MP4, WMA	Dolby Digital AC3, MPEG 2, MP3, MP4, WMA	Dolby Digital AC3, MPEG 2, MP3, MP4, WMA	Dolby Digital AC3, MPEG 2, MP3, WMA
Digital outputs		Dolby Digital AC3, MPEG, DTS, PCM	Dolby Digital AC3, MPEG, DTS, PCM	Dolby Digital AC3, MPEG, DTS, PCM	Dolby Digital AC3, MPEG, DTS, PCM
Dolby ProLogic		•	•	•	•
Virtual Dolby Surround		•	•	•	•
PLAYBACK FEATURES					
Fast picture search (forward and reverse)		2x / 4x / 8x / 16x / 32x	2x / 4x / 8x / 20x	2x / 4x / 6x / 8x	2x / 4x / 6x / 8x
Title / chapter skip		•	•	•	•
Direct chapter selection with 10 key keypad		•	•	•	•
Perfect still picture / Picture by picture playback		• / •	• / •	• / •	• / •
Slow motion (forward and reverse)		–	1/2, 1/4, 1/6, 1/8	1/2, 1/4, 1/8	1/2, 1/4, 1/8
Repeat		Title/chapter/sequence A – B	Title/chapter/sequence A – B	Title/chapter/sequence A – B	Title/chapter/sequence A – B
Random Play / Programme Play (CD, MP3)		• / •	• / •	• / •	• / •
SPECIAL FEATURES					
Zoom		•	•	•	•
Child lock		•	•	•	•
Language choice (dialog, subtitle) [1]		•	•	•	•
Multi-angle choice [1]		•	•	•	•
OPERATING FEATURES					
Infrared remote control		TP 77 D, remote control with elementary functions for Grundig TV	TP 81 D, remote control with elementary functions for Grundig TV	TP 81 D, remote control with elementary functions for Grundig TV	TP 81 D, remote control with elementary functions for Grundig TV
On Screen Display		•	•	•	•
CONNECTIONS					
USB		2.0 full speed; front	2.0 full speed; front	–	–
HDMI / HDCP		•	•	–	–
YUV-sockets (Progressive Scan; 3 x Cinch)		–	•	•	•
Euro-AV, Scart		–	1 x (RGB)	1 x (RGB)	1 x (RGB)
Cinch video-out (CVBS) / Cinch audio stereo downmix		• / •	• / •	• / •	• / •
S-video socket (Y/C) out		–	•	•	•
Digital audio output coaxial / optical		• / –	• / •	• / •	• / •
MAINS UNIT					
Mains voltage	V~	AC/DC adaptor 12 V= / 1,5 A	100 – 240, 50 – 60 Hz	100 – 240, 50 – 60 Hz	100 – 240, 50 – 60 Hz
Power consumption max. / stand-by	approx. W	8 / < 3	15 / < 1	10 / 4	10 / 4
Weight	approx. kg	1.3	2.2	2.2	2.2
Dimensions (W x H x D)	approx. cm	21.7 x 16.6 x 2.6	43 x 4.3 x 25.7	43 x 3.8 x 25.4	43 x 3.8 x 2.4

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[1] Depending on the DVD-Disc.

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